

Midterm practice: Solve with completing the square

1. Use completing-the-square to solve the equation: $x^2 + 10x - 3 = 20$
2. Use completing-the-square to solve the equation: $x^2 - 10x + 3 = 86$
3. Use completing-the-square to solve the equation: $x^2 - 8x - 5 = 6$
4. Use completing-the-square to solve the equation: $x^2 - 12x + 8 = 26$
5. Use completing-the-square to solve the equation: $x^2 + 6x + 3 = 174$
6. Use completing-the-square to solve the equation: $x^2 - 10x - 5 = 82$
7. Use completing-the-square to solve the equation: $x^2 - 6x - 8 = -9$
8. Use completing-the-square to solve the equation: $x^2 + 18x + 4 = -57$
9. Use completing-the-square to solve the equation: $x^2 - 6x + 4 = 35$
10. Use completing-the-square to solve the equation: $x^2 + 16x - 5 = 93$
11. Use completing-the-square to solve the equation: $x^2 + 16x - 8 = -44$
12. Use completing-the-square to solve the equation: $x^2 + 8x + 2 = 133$
13. Use completing-the-square to solve the equation: $x^2 - 14x - 5 = 74$
14. Use completing-the-square to solve the equation: $x^2 - 14x + 1 = 152$
15. Use completing-the-square to solve the equation: $x^2 - 8x + 4 = 42$
16. Use completing-the-square to solve the equation: $x^2 - 6x - 6 = 97$
17. Use completing-the-square to solve the equation: $x^2 - 14x - 3 = 20$
18. Use completing-the-square to solve the equation: $x^2 + 14x + 8 = 57$
19. Use completing-the-square to solve the equation: $x^2 - 8x - 5 = 126$
20. Use completing-the-square to solve the equation: $x^2 + 8x + 5 = 43$

$$19. \quad x = 4 \pm 7\sqrt{3}$$

$$1. \quad x = -5 \pm 4\sqrt{3}$$

$$11. \quad x = -8 \pm 2\sqrt{7}$$

$$12. \quad x = -4 \pm 7\sqrt{3}$$

$$15. \quad x = 4 \pm 3\sqrt{6}$$

$$6. \quad x = 5 \pm 4\sqrt{7}$$

$$7. \quad x = 3 \pm 2\sqrt{2}$$

$$17. \quad x = 7 \pm 6\sqrt{2}$$

$$16. \quad x = 3 \pm 4\sqrt{7}$$

$$2. \quad x = 5 \pm 6\sqrt{3}$$

$$9. \quad x = 3 \pm 2\sqrt{10}$$

$$18. \quad x = -7 \pm 7\sqrt{2}$$

$$13. \quad x = 7 \pm 8\sqrt{2}$$

$$5. \quad x = -3 \pm 6\sqrt{5}$$

$$4. \quad x = 6 \pm 3\sqrt{6}$$

$$8. \quad x = -9 \pm 2\sqrt{5}$$

$$20. \quad x = -4 \pm 3\sqrt{6}$$

$$3. \quad x = 4 \pm 3\sqrt{3}$$

$$10. \quad x = -8 \pm 9\sqrt{2}$$

$$14. \quad x = 7 \pm 10\sqrt{2}$$